



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/029,929	12/31/2001	Tommy Kristensen Bysted	1076.41047X00	5905
20457	7590	11/22/2005	EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873			KHOO, FOONG LIN	
			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 11/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/029,929	Applicant(s) BYSTED ET AL.	
	Examiner F. Lin Khoo	Art Unit 2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: On page 5, paragraph 7, line 5, "memory 210" is not shown in Fig.3.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Double Patenting

2. Claims 1-6 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6 of copending Application No. 10/029,974. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following:

Art Unit: 2664

With respect to claims 1 and 4, the instant application claims all the limitations of claims 1 and 4, respectively, of the copending Application 10/029,974 except selected manner in dependence on the modulation method employed in physical layer. In accordance with *In re Van Ornum*, 686 F.2d 937, 942-43, 214 USPQ 761, 766(CCPA 1982), claims 1 and 4 of the instant application would dominate claims 1 and 4, respectively, of copending Application 10/029,974 since a code identifying selected manners included in physical layer signal is broader and inclusive of the modulation method.

With respect to claims 2 and 5, the claims correspond to claims 3 and 6, respectively, of the copending Application 10/029,974.

With respect to claims 3 and 6, the instant application claims all the limitations of claims 3 and 6, respectively, of the copending Application 10/029,974 except code in each burst. In accordance with *In re Van Ornum*, 686 F.2d 937, 942-43, 214 USPQ 761, 766(CCPA 1982), claims 3 and 6 of the instant application would dominate claims 3 and 6, respectively, of copending Application 10/029,974 since a code distributed across a plurality of bursts is broader and inclusive of the code in each burst.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-3, 4-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Hiramatsu (U.S. Publication No. 2003/0072253).

Regarding Claim 1, Hiramatsu discloses a method of transmitting a radio signal, the method comprising implementing a protocol stack having at least a physical layer and a medium access control layer including a plurality of transport channels which are multiplexed to produce a physical layer signal, each transport channel being processed in a respectively selected manner, wherein a code identifying said selected manners is included in said physical layer signal (all terrestrial mobile radio communication inherently conforms to a OSI reference model protocol stack with a medium access control layer (layer 2) and a physical layer (layer 1) which includes a plurality of transport channels which are multiplexed to produce a physical layer signal, as evidenced in Technical Specification 3GPP TS 25.302 V3.6.0, Sections 4 and 5. The TFCI is a signal for reporting the Downlink Shared Channel (DSCH) transmission format to the receiving side and this is associated with each transport channel being processed

Art Unit: 2664

in a respectively selected manner, wherein a code identifying said selected manners is included in said physical layer signal. Note: the transmission format or transport format is the selected manner being processed and the code is the TFCI identifying the selected manners (see paragraph [0026] and also evidenced in Technical Specification 3GPP TS 25.302 V3.6.0, Sections 4, 5 and 7).

Regarding Claim 2, Hiramatsu discloses wherein said physical layer signal comprises a TDMA signal and said code is transmitted in predetermined locations (Fig. 5; see paragraphs [0005, 0026, 0030]. A DSCH is a channel for transmitting QAM modulated data to mobile station apparatuses by time division, and the mobile station apparatus being transmitted to can be changed every frame. The time division and frame are associated with a TDMA signal and the code (TFCI) transmitted in predetermined locations is shown in Fig. 5. This is further evidenced in the Technical Specification 3G TS 25 221 V3.0.0, Sections 5, 5.1 and 5.2.2.1).

Regarding Claim 3, Hiramatsu discloses wherein said code is distributed across a plurality of bursts (Fig. 5; see paragraphs [0005, 0026, 0030]. A DSCH is a channel for transmitting QAM modulated data to mobile station apparatuses by time division, and the mobile station apparatus being transmitted to can be changed every frame. Transmitting by time division is related to transmission of traffic burst at each interval of time and in Fig. 5, the code (TFCI) located in predetermined locations in each frame is associated with the code distributed across a plurality of burst. This is further evidenced in the Technical Specification 3G TS 25 221 V3.0.0, Sections 5, 5.1 and 5.2.2.1).

Claims 4-6 are similar in scope as that of corresponding claims 1-3 and hence are rejected for the same reasons set forth above. A radio transmitter for performing the method of transmitting a radio signal is inherent (Fig. 4, apparatus 100; see paragraph [0023]).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 6,826,193 to Peisa relates to a method of allocating transmission resources at a Media Access Control (MAC) entity of a node of a Universal Mobile Telecommunications System (UMTS).

U.S. Patent No. 6,909,887 to Fauconnier et al. relates to a method of controlling a circuit mode communication logical channel between a radio terminal and a cellular radiocommunication infrastructure.

U.S. Patent No. 6,813,284 to Vayanos et al. relates to a method and system that enables multiplexing a plurality of data streams onto one data stream based on data stream priorities, available transport format combinations (TFCs), and transmission time interval (TTI) constraints of transport frames within the TFCs.

U.S. Patent No. 6,646,993 to Davies et al. relates to a communication apparatus and method of format adaptation particularly suited for a CDMA cellular communication system.

U.S. Patent No. 2005/0018614 to Kiran relates to a receiver for data-rate detection in a signal received from a transmitter of a cellular radio communication system including multiple transport channels supporting variable data-rate transmissions.

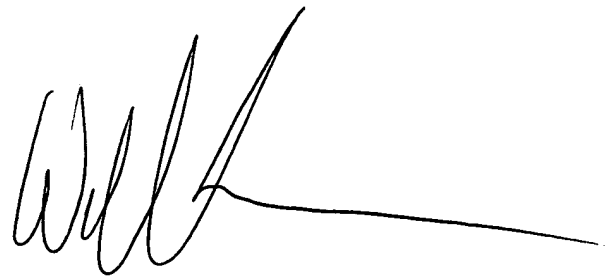
The above prior art are cited to further show the same field of endeavor with respect to the applicant's claimed invention.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F. Lin Khoo whose telephone number is 571-272-5508. The examiner can normally be reached on flex time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2664

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Wellington Chin', with a long horizontal line extending to the right.

WELLINGTON CHIN
SUPERVISORY PATENT EXAMINER